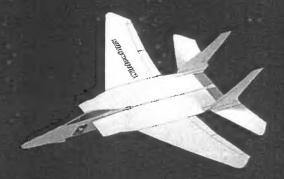
Whitewings

ASSEMBLY INSTRUCTIONS

FLIGHT INSTRUCTIONS

GUIDELINE FOR WHITEWINGS COMPETITION
INTRODUCTION TO PAPER PLANE DESIGN
HOW TO BUILD "WHITEWINGS"



HISTORY OF JET FIGHTERS SERIES

Give the middle part of the main wing firmly to the fuselage. Assemble the middle part of the wing with (9), (0), (0), (0) (0) and (0) following the assembly instructions 0, 1,...,7, on page 64 starting with step 0. The dihedral angle, however, must be 5. Be careful as the part different from those listed on page 64. numbers for the main wing are

Arrow points forward fuseiage. stabilizer (6) to the Glue the horizontal

(E)

00

Apply glue to the top surface of the folded tabs of the main wing. Attach wing tips (3) and (5) respectively. Once

Arrow points forward

Camber both wing tips (4) and (5). Fold tabs on both ends of the main wing to form a 30° dihedral angle using the gauge and then camber them as well.

angle is 5°

Camber the wing tips carefully.

dihedral angle at the tip of the wing is 30", using the again, check that the

FINISHING TOUCHES

outward. Fold all tabs

Camber the main wings carefully with your fingers.
Using the dihedral angle gauge make sure the dihedral angle for the main wing is 5° and for the wing tips 30°.
View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings. Give the finishing touches to the plane after it dries thoroughly.

Aligning the noses flush, glue (i) through (ii) together in the order

(0)

(3)

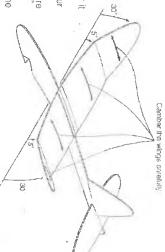
(F)

(9)

shown

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.



airplanes. That is why I have spent some time researching and designing a fuselage that accomodates the body construction of a large paper airplane. The result of theses efforts was the invention of the triangular long fuselage which is resistant to bending and twisting. Its aerodynamic performance makes it worthy of the Whitewings' name.

Make firm creases along the dashed lines of fuselage pieces (3) & (2) using a common ordinary table knife (blunt knife) and a ruler as a guide.

Avoid cutting through the dashed lines.



Glue the inner edges together to complete the formation of the cross

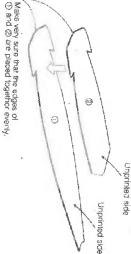
Cross section

section as shown.

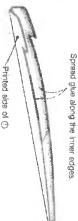
Make imm creases along the dashed lines.

along the dashed lines

Spread glue evenly over the entire surface of <u>printed side of (2)</u>. Apply (2) to the <u>unprinted side of (1)</u>. Make very sure that the edges of (2) and (3) that form the plane noise are placed together evenly, or flush, as shown in the diagram.



Before the glue dries, fold ① and ② along the creased dashed lines having ② face inward. Then spread glue along the inner edges as shown.



View the fuselage closely from both the front and back carefully straighten any warps or bends before the glue dries. Look inside of the fuselage to make sure the inner side also draw no warps or bends.

Wrong

Inner sides also draw no warps or bends.

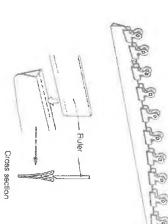
Cross section

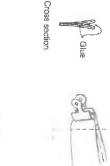
Ruler

Let the fuselage dry completely by attaching clips or clothespins on the glued edges as shown, it takes at least 2 hours to dry.

Make a groove along the thick dashed line at the plane nose by carefully pressing down upon it with a ruler. The groove must be deeper at the tip of the plane nose than at any other pari. The remaining area of the tup of the fuselage, except for the thick dashed line, should remain flat.

Put glue into the groove at the tip of the plane rose and both inner sides of the plane rose and glue together. Let it dry thoroughly (at least 2 hours) using a clip to keep the tip of the nose in place.





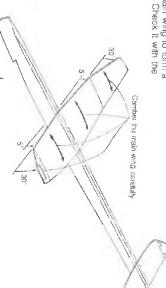
Completed Figure.

,

Glue the main wing ((9 + 9)) firmly to the gluing position for the main wing on the fuselage. Make sure to that of the fuselage the main wing with align the center line of Glue (4) to the underside of (3). When dry, cut off the profruding portions. Arrows : ... forward Gluing position for the main wing to make a dihedral angle of approximately 5° for both sides of the main wing. bend each side up individually Place a ruler along each of the outer lines of the main wing and Outar lines for the dihedral angle Arrow points forward. -along the solid lines up to the dashed lines. Place a resulting strips slightly line and bend the ruler along the dashed Cut the main wing (3) Gluing position for the horizontal stabilizer Glue the vertical stabilizers (a) and (b) to the tabs of the horizontal stabilizer (2) aligning the arrows on (a) and (b) with the folded tab lines of (2) Glue the horizontal Fold both tabs of the horizontal stabilizer (?) as Arrow points forward

> Camber both wing tips (§) (§). Apply glue to the top of the folded tabs of the r 30" using the gauge. wing and attach the wing and (6) respectively as she dihedral angle at the wing Once again, check that th

Camber the main wing, Fold tabs on both ends of the main wing to form a 30° dihedral angle. Check it with the gauge.



FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- 11. Make the camber on the main wing even with your fingers
- 12. Using the diffectal angle gauge, make sure the differal angle of the main wing is 5° and for the wing tips 30°.
 13. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

Assemble the fuselage following the assembly instructions for the triangular fuselage on pages 42 and 43.

TEST FLIGHT

top. Make sure to align the center line of the fuselage with that of the

firmly onto the gluing position for the horizontal stabilizer on the fuselage

stabilizer (2) + (8) + (9)

Test fly the plane according to the test flight instructions for Regular Planes on pages 11 to 13.

up individually to make a dihedral angle of approximately 15" for both sides of the main wing. Place a ruler along the outer lines of the main wing and bend each side

> other side of the vertical stabilizer (6). Fold the tab of the vertical stabilizer (a) Glue (7) to the

Arrow points forward

Arrow points forward

the fuselage. Make sure to align the folded tab line of the vertical stabilizer with the center line on the fuselage. Glue the vertical stabilizer (6) + (2) to the gluing position for the vertical stabilizer on

Outer lines for the dihedral angle 6 Gluing position for the horizontal stabilizer. frow points forward Fold ② along the dashed line at a 90° angle and then cut off the portions. protruding

dry, cut off the protruding

ines. When their center aligning underside of

Glue (4) to the

portions,

Gluing position for the main wing Gluing position for the vertical stabilizer

Glue the main wing (③ + ④) firmly to the gluing position for the main wing on the fuselage aligning its center line with that of

the fuserage.

00

Assemble the fuselage following the assembly instructions for the triangular fuselage on pages 42 and 43.

surrounds the base of the positions for the engine on the fuselage. Then fold (6) as Glue the engine (® + ®) + (®) + (1) to the gluing engine as shown. shown and glue (6) to the

To so

After inserting the pin with the propeller into the back end of the revolves smoothly that both blades are of equal length. Make sure the propeller engine, trim the propeller blades so

the hub as shown. Wrap the Curve the end of both propeller blades (@ and @) to fit around blades around the hub and glue し

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blades in apposite directions as shown When dry, carefully twist the propeller

FINISHING TOUCHES

is.

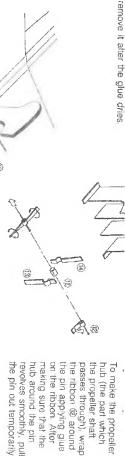
Camber the wings carefully

- Give the finishing touches to the plane after it dries thoroughly.
- 12. Camber the main wing slightly with your
- 13. Using the dihedral angle gauge make sure the dihedral angle of the main wing is 15°.
 14. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

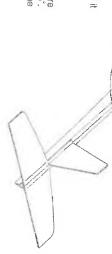
Glue the horizontal stabilizer ⑤ to the gluing position for the horizontal stabilizer on the fuselage.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13



making sure that the hub around the pin revolves smoothly, pull the pin applying glue on the ribbon. After passes through), wrap the ribbon (2) around To make the propeller hub (the part which the propeller shaft



had been carried forward and put into practical use in the Me-262 prior to any other country.

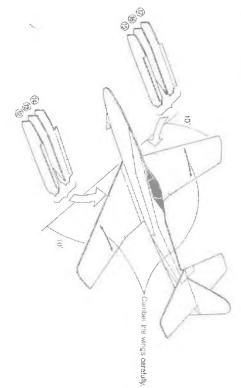
GLUING INSTRUCTIONS

Glue the parts together in the order indicated

Aligning the noses flush, glue ① through the order shown. (7) together in Glue (i) to the printed box on the top of the horizontal stabilizer @ center line of the main wing (® + ®), make a dihedral angle of approximately 10°. Then, glue the main wing to the fuselage aligning their center lines. (Refer to 2 Placing a ruler along the Ð Glue the horizontal, *stabilizer ((0) + (1)) to the fuselage. Glue ® to the underside of ®. When dry, cut off Fold all tabs outward the protruding portions. points forward

After folding the tabs, glue together ®, @ and @ to make the left engine and ®, @ and ® for the right engine.

of the main wing as a guide, glue the two engines to the underside of the main wing. Using the engine installation lines on the upperside



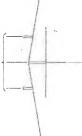
FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- Camber the outer sides of the main wing from the engines carefully with your fingers.
 Place the dihedral angle gauge at the underside of the main wing and make sure the dihedral angle for the main wing is 10°.
 Fix the engines to ensure the vertical fuselage line and the engines are parallel tuselage. when viewed from the front.

 12. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.



Make the three parallel.

INOTE]
In the case of a low-wing plane, the fuselage In the case of a low-wing plane, the fuselage prevents you from finding the printed center line of a main wing. In order to align the center line of both a main wing and a fuselage, therefore, take

[NOTE].)

(8)

Arrow points forward

the following measure. Make pinholes at both

ends of the center line on the top side of the

Turn the main wing over. Link the

line on the unprinted side of the main wing.

pinholes together with a ruler and draw a center

Referring to the figure, glue the rear tabs of the front fuselage to close the slit.

View of the front fuselage from the back

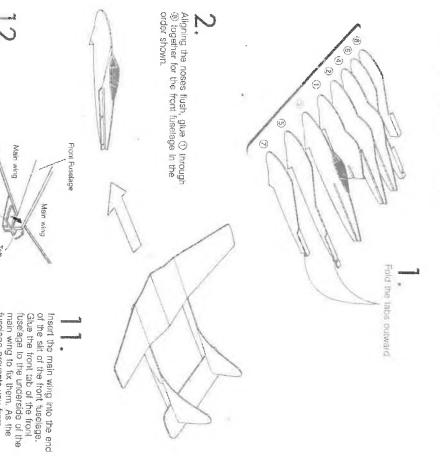
the main wing.

fuselage prevents you from finding the center line of the main wing, install the fuselage using the center guidelines on

GI LING INSTRUCTIONS

GLUING INSTRUCTIONS

Glue the parts together in the order indicated



Aligning the noses flush, glue (3) through (3) together for the rear right fuselage in the order Give the finishing touches to the plane after it dries thoroughly. 15. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings. 1.4. Using the dihedral angle gauge, make sure the dihedral angle of the outer of the 13. Camber the wing tips carefully with your FINISHING TOUCHES shown. wing. Using the installation lines for left and right fuselages as a guide, glue both the underside of the main rear -left and rear -right fuselages to the main wing tips are both 15°. fingers. Aligning the noses flush, glue (9) through (9) together for the rear - left fuselage in the order shown. 6 3 6 9 (3) (3) outward Fold the tabs Camber the wings tips Placing a ruler along the installation lines for left and right fuselages on the main wing, make a dihedral angle of approximately 15' for both sides of the main wing. (Use a dihedral angle gauge., 00 Bridging the horizontal stabilizer (§) between left and right rear fuselages, glue it to the fuselages Fold the tabs outward.

TEST FLIGHT

 Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

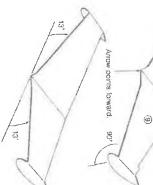
a characteristic feature of P-80. T-33 Jet Trainer Plane which is now being used is the two-seat plane based upon P-80.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.

tuselage. Glue the horizontal stabilizer @ to the Glue (1) to the printed box on the top of the horizontal stabilizer (1). 00 Fold all tabs outward.

Arrow points forward.



FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- Camber the main wing slightly with your
- fingers.

 1) Place the dihedral angle gauge at the underside of the main wing and make sure the dihedral angle for the main wing is 13.

 12. Make sure the tip tanks are bent at 90° to

Aligning the noses flush, glue ① through ② together in the order shown.

the main wing.
 View the plane from the front and the back and straighten any warps or bends in the fuselage and the wings.

Place a ruler along the center line of the main wing (® + ®), make a dihedral angle of approximately 13 for both sides of the main wing. Then, glue the main wing to the fuselage aligning their center lines.

(Refer to [NOTE] on page 48.)

TEST FLIGHT

13:

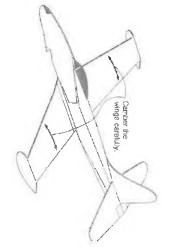
Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

Glue parts 9 and 9 respectively to the inside of the tip tanks of the main wing 9.

(8)

extra 2 - 3mm margin along the front and back (For this P-80, it is easier not to cut @ out with on Bend the tip tanks of (9) (the backing of the main lines.) wing) downward 90°.

Spread glue entirely on the printed side of (§) including the tip tanks. Then, glue (§) to the underside of the main wing (§) and lef it dry thoroughly



GLUING INSTRUCTIONS

Aligning the noses flush, Glue the parts together in the order indicated. (N) 0 Fold all tabs outward. Arrow points forward. Glue ① to the printed box on the horizontal stabilizer ⑩,

Placing a ruler along the center line of the horizontal stabilizer ((i) + (ii)), make a dhedral angle of approximately 7°. Then, glue it to the fuselage.

glue ① through ⑦ together in

the order shown

Arrow points forward.

Glue (9) to the

underside of (8) When dry, cut off the protruding portions.

FINISHING TOUCHES

(Refer to [NOTE] on page 48.)

Place a ruler along the center line of the main wing (® + ®) and make a dihedral angle of approximately 10' using the dihedral angle gauge. Then, glue the main wing firmly to the fuselage.

Give the finishing touches to the plane after it dries thoroughly

Camber the wings carefully

- 7. Camber the main wings carefully with your fingers.
- 8. Using the dihedral angle gauge, make sure the dihedral angle for the main wings .0 are 10° and for the horizontal stabilizer 7°. View the plane from both the front and the back and straighten any warps or bends in the fuselage and wings.

◆Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

\$

FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- Camber the wing tips carefully with your lingers.
- Using the dihedral angle gauge make sure the dihedral angle for the wing tips are 23° and for the horizontal stabilizer minus 12°.
 View the plane from both the front and the back and straighten any warps or bends

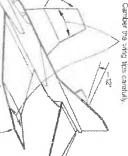
in the fuselage and wings.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.

Arrows point forward. Aligning the noses flush, the order shown. glue (1) through Glue the parts together in the order indicated **GLUING INSTRUCTIONS** established. Its first flight was in 1958 (8) together in (9) Then, glue the main wing firmly to the fuselage aligning their center lines. (Refer to a dihedral angle of lines on the wing tips, make Placing a ruler along the approximately 23° [NOTE] on page 48.) Fold all tabs outward. firmly to the fuselage. Turn the terminal and glue it Glue @ to the underside of @. When dry, cut off Place a ruler along the center line of angle of approximately 12

the protruding portions.



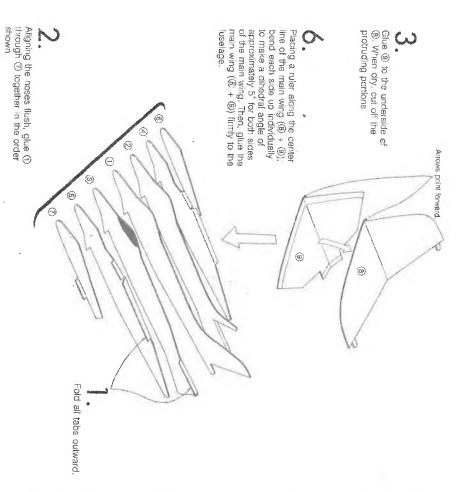
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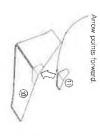
23

חנואטען וו ועטא פן עווען וווופ וע ווופואפ וו practicat, the mammam was completed and became the tirst and most successful SNTOL fighter in the world.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.





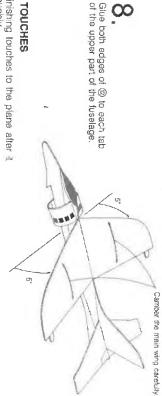
Glue (1) to the printed box on the top of the horizontal stabilizer (10).



Glue the horizontal stabilizer (\P + \P) to the fuselage.



Roll up ® with your fingers in advance keeping the printed side of ® facing outward. Then glue ® to the tab of the lower part of the fuselage aligning the center line of ® with the center of the fuselage.



FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- 9. Camber the main wings slightly with your fingers.
 10. Using the dihedral angle gauge, make sure the dihedral angle for the main wing is 5°.
- 11. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

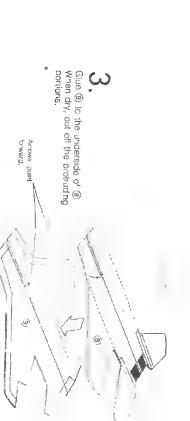
TEST FLIGHT

 Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

fighters since this development. Its first flight was in 1972.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



Fold all tabs outward.

Glue (8) + (9) frmy to the tusetage

9

(3)

G ve the finishing touches to the plane after it dries thorough y.

FINISHING TOUCHES

8. Camber the main wings carefully with your fringers.
9. Using the dihedra' angle gauge, make sure the dihedral angle for the main wing are 5° and the vertical stabilizers 90°.
10. View the plane from the front and the back and straighten any warps or bends in the fuselage and wings.

TEST FLIGHT

Test fly the plane according to Test Flight instructions for Regular Panes on pages "1 to 13

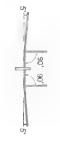
Aligning the noses flush, glue (1) through (2) together in the order shown

Next, glue 0 to the side of 1 and 1 to the side of 1.

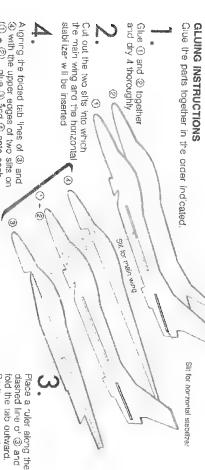


Placing a ruler along the dashed line, bend the main wing slightly upward to make a dihedra angle of approximately 5°









Algring the folded tab lines of (3) and (4) with the upper edges of two silts on ((1) + (2)) glue (3) and (4) onto each side of the "uselage ((1) + (2)) so that the sits are not covered by parts (3) and (4)

a 15

④

Do the same with part

Insert and give the main wing to the fuse age in the same way as the hor zontal stabilizer except this time,

the center line as the guide to the plane flies. should be visible when with printed side down, The logo

Arrows porit forward

Agair, use the pinholes

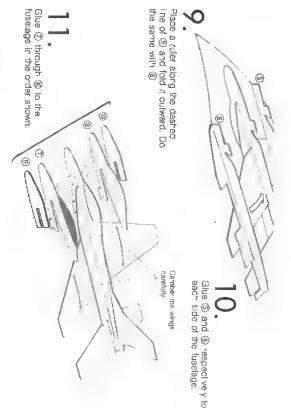
ne guide pinholes Arrow points forward at the center. Fixing the center part of the hor zontal stabilizer to the body, glue t in these tabs downward so that the horizontal touch the glue except into the slit, does not up), when inserted stab lizer (printed side only along the rear slit (See figure). Bend apply glue on the tabs upside-down. furn the fuselage

Center

Make phholes through the center guidelines so that you can find the center from the underside of the 0

(3)

fuselage, f guidelings Center guidelines. When the main wing is inserted into the tusetage, find the center part of the wing using these center.



FINISHING TOUCHES

- Give the "in'shing touches to the plane after it aries thoroughly.
- Using a ruler make the dihedral angle of angle of minus I" on the horizontal stabithat the dihedral angles have been properdihedral angle gauge on them to check tab where it is not glued. Make a dihedral ui Jez I "0" or the main wing at the end of the flat the same marner. Place



- $\vec{\omega}$ Camber the main wings slightly with your fingers.
- Bend both trailing edges of the horizontal stabilizer upward by to do this, or the plane approximately 1 - 2 mm (1/16"). Do not forget

5 back and straighten any warps or bends View the plane from both the front and the the fuselage and wings

TEST FLIGHT

- instructions for Regular Planes on pages Test fly the plane according to the Test Flg 15 13
- If your plane tends to dive down or if it flic trailing edges of the horizontal stabilizer Keep bending the part just a fraction mountil you get a straight flight. upside - down when going upward, the reason might be insufficient bending on the

Glue ® to the underside of ① When dry cut off the protruding portions

a rip are, towers, this advantage can be a reason to class advantage tas a texturated to the reason the class advantage the test flight naturations of De tal war gip are adjustments patiently so that you can fy the mode of MIRAGE 2000 well.

Glue the parts together in the order indicated GLUING INSTRUCTIONS

Aigning the noses flush, glue through (a) together in the

order shown

aligning the center line of the main wing with that of the fuse age. (Refer to projection into the sirts, in order to glue the main [NOTE] or page 48.) wing to the fuselage wing and glue the main underside of the main certer ine on the wing accurate y, draw the catapult and the rear Spread glue on the tabs on the fuselage. Then, both the hook for the man wing ② inserting glue the fuselage to the <u>@</u> (b) Θ tuselage. projection of the wing covering the rear underside of the main Glue to ded (1) to the 9

FINISHING TOUCHES

• Give the finishing touches to the plane after it dries thoroughly

7 Turning up gently the wing from the wing root, make a dihedral angle of

approximately 8°.

P ace the dihedral angle gauge at the underside of the wing and check the dhedral angle is 8°.

8. Bend both trailing edges of the wing up by approximately 3 mm (1/8"). Don't forget this, or the plane won't fly.

9. View the plane from both the front and the back and straighten any warps or bends in the fuse age and the wing.

00

.9

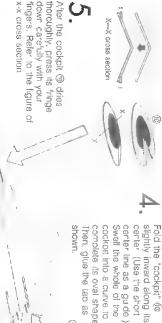
TEST FLIGHT

Test 'y the plane according to the Test Flight instruction for Deta wing plane on page 13

before been realized in war planes, its mass production is expected in the tate 1880 s

GLUING INSTRUCTIONS

Glue the parts together in the order indicated



down carefully with your fingers. Refer to the figure of thoroughly, press its fringe After the cockplt @ dries

Cut out the two sits on the main

outward. Fold the tabs

cutter. WING (Use a

(

shape on the upper side of the wing (7). it to the printed ova the bottom edge of the cockpit (i) Apply Spread glue around Press it down with

A igning the noses flush, glue (1) through (6) together 'r the order shown.

your fingers for a ⁵ew minutes until it dries

Fod ® with the printed side outward

as shown.

Give the finishing touches to the plane after t FINISHING TOUCHES 8. Bend the right and left trailing edges of dries thoroughly.

(*/2") Refer to the figure

9. Bend both trailing edges of the horizontal stabilizers upward by 1 mm (1/32"). Refer to the fgure

13mm ("/2")

line of (2) with that of the

'uselage.

the main wing slightly upward 13 mm

View the plane from both the front and the Tit the two vertical stabilizers respectively vertical stabilizers to make sure of the outward (64°) but the gauge between the anges

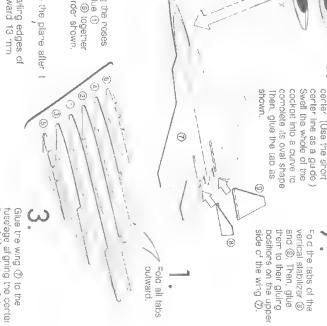
in the fuselage and the main wing back and straighten any warps or bends

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to

ü

13mm (1/2")

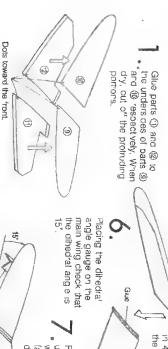


Because the shape of the central part of the wing resembles a so-called saddle shaped surface in math, I call this type of wing a MOST (Modified Saddle wing, t is constructed as follows. ype)

CAUTION 1

instructions for other models the mode, be careful when you use these dihedral angle may change according to Racer 533 As the part rumbers and The parts numbers used below are for the

with step 0. When constructing the Racer 534, start



Using a ruler along the center line, fold part (a) from the center ine to make a 15° angle on both sides. Then curve t carefully with your fingers to fit the curved edge

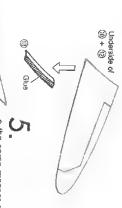


(9)

Arrow points toward

the front.

Apply glue on half of the underside of @ and glue onto @ + @ (The arrow should point toward the dot.)



n the same manner as in 4 attach (9) + (1) to the other side of (9)

Putting fo ded stands under the main wing drying fast and thorough will be conducive to

Folded paper stands डां

Cut parts (a) and (b) along the solid ness up to the dashed lines. Then placing a rule along the dashed line, bend the resulting strips slightly upward

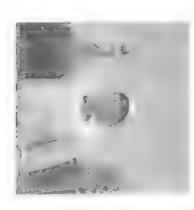
שירטוטוארח ט דוועו ורר

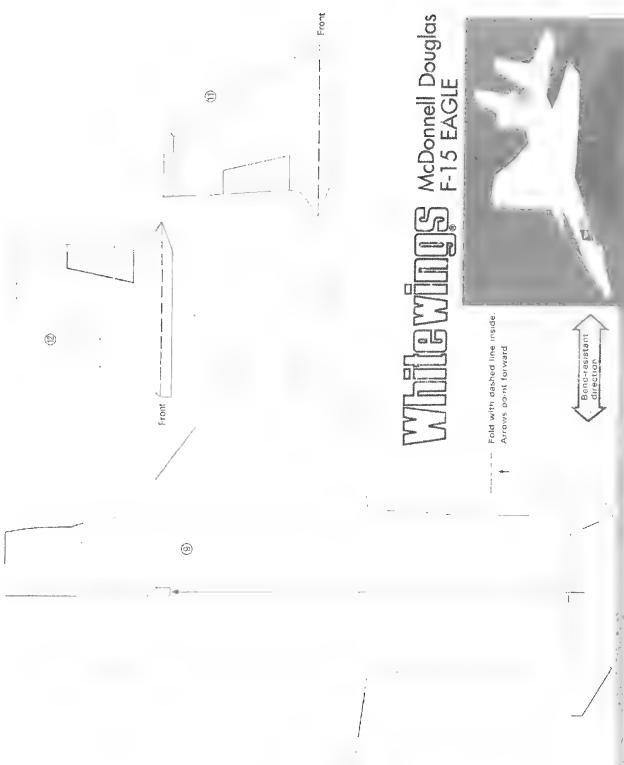
Dr. Yasuaki Ninomiya, born in 1926 has been fascinated by his present hobby and business of designing and building paper airplanes since early chi dhood, an interest which later developed into

the Ministry of International Trade and Industry. sociation and has been a member of the Good Design Committee of of the Iranian government he served as principal advisor of the joint Electrical Communications Laboratory of the Nippon Telegraph and tions engineering from his work as a leading researcher at the ment theory. He is recognized as a pioneer in microwave communica-He received his doctorate in 1962 in the field of microwave measure-1977. He is currently a member of the Japan industrial Designer's As-Japan-ran Electronic Communications Research Center from 1975 to Telephone Corporation from which he retired in 1984. At the invitation

N romya designs aviationally sound and sleek, high performance Basin Division) in San Francisco in 1967. He later served as a judge garnering of the grand prizes in the Duration Flight and Distance Flight categories of the "st International Paper Plane contest (Pacific paper planes based upor principles of industrial design and Drawing upon this distinguished background and expertise. Dr. Washington r May 1985 r the 2nd Great International Paper Plane Contest, held in Seattle mechanical functionality. Convincing evidence of his talent is his

operator's license and tries to get into the pilot's seat of his Cessna type madels to profile models. He also holds a private plane planes. He has designed a wide variety of planes ranging from racer Dr. Ninomiya is w dely recognized as a respected authority on paper 182 whenever his busy schedule permits.



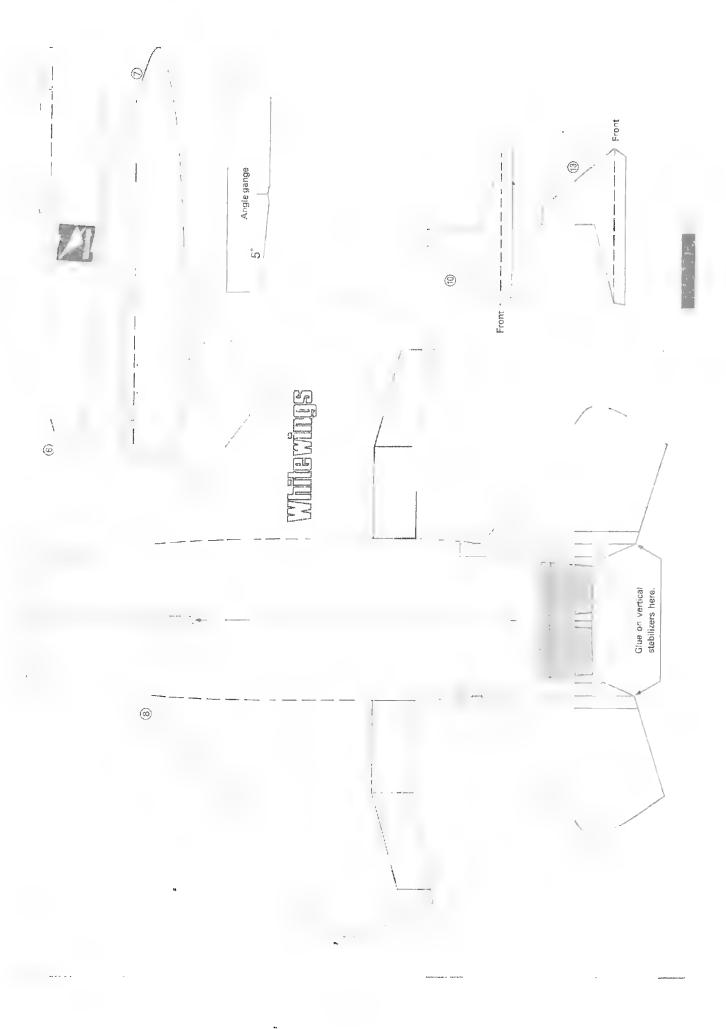


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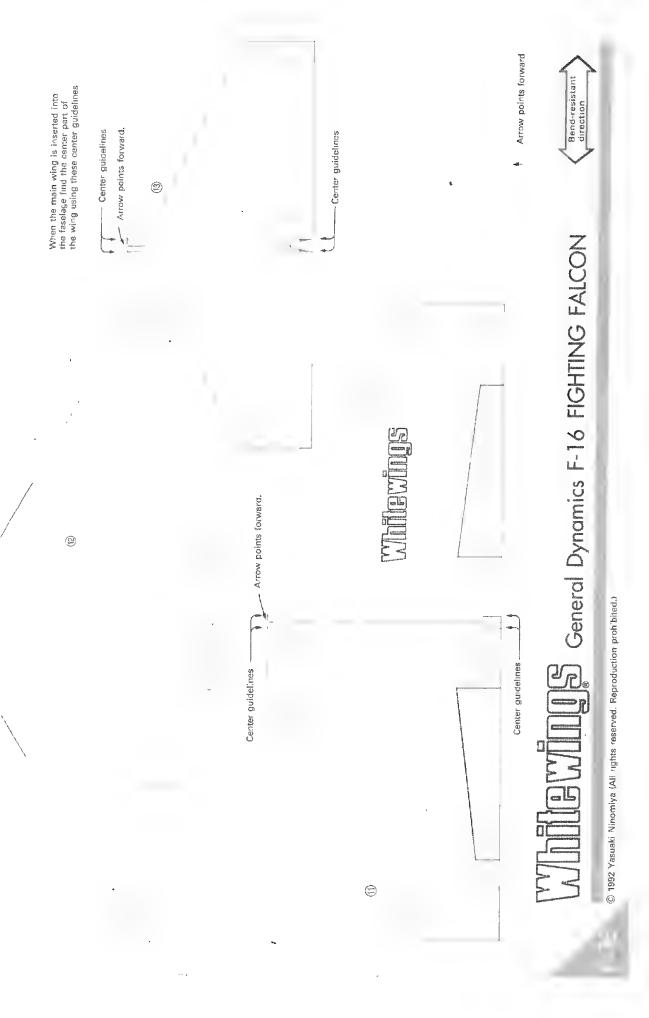


--- Fold with dashed line inside Bend-resistant direction 4 <u>©</u> Lockheed F-22 6 . 75 Dots toward the front. Angle gange 64° (10)

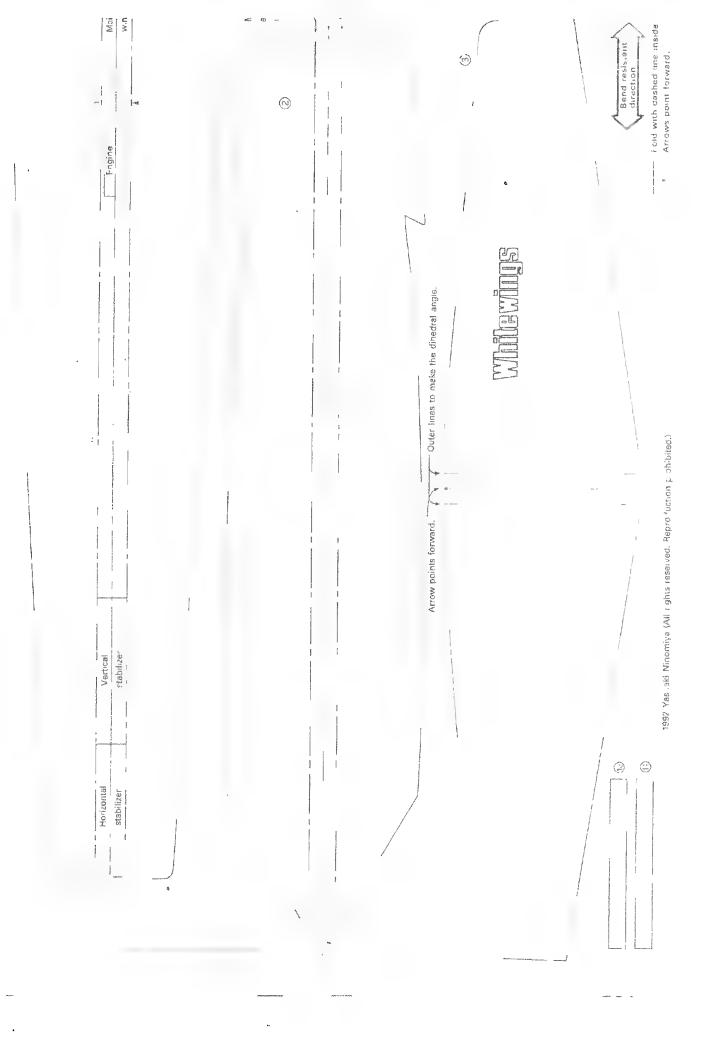
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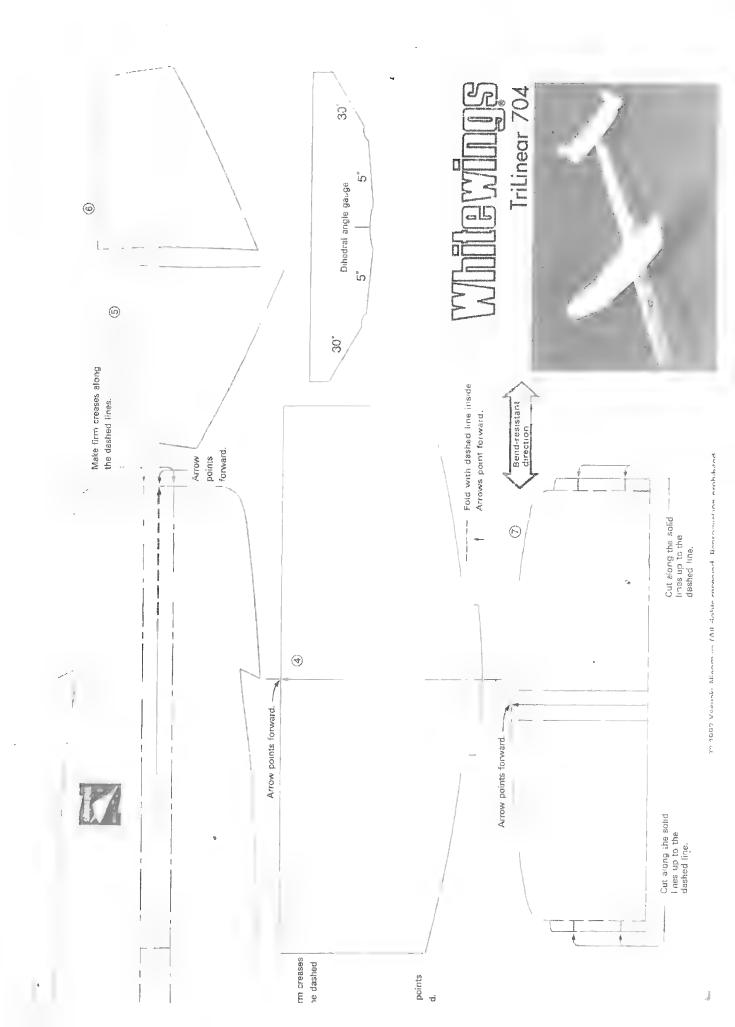


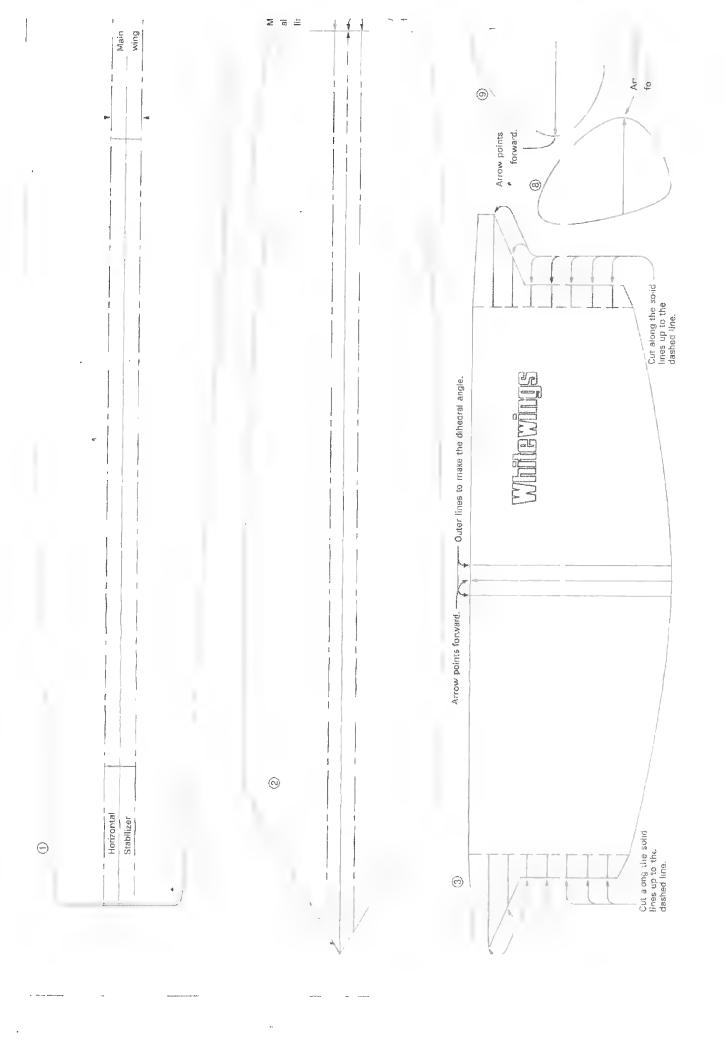




Arrow points forward.









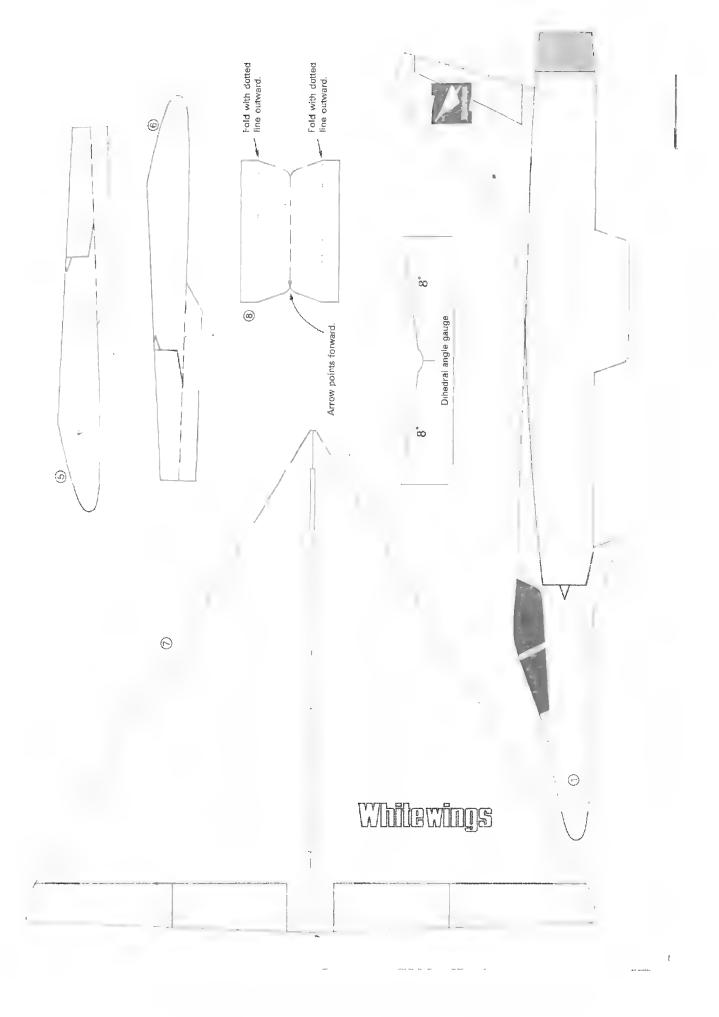


Fold with dashed line inside. Arrows point forward



MINITER Dessault MINITER MINITER 2000

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(2)



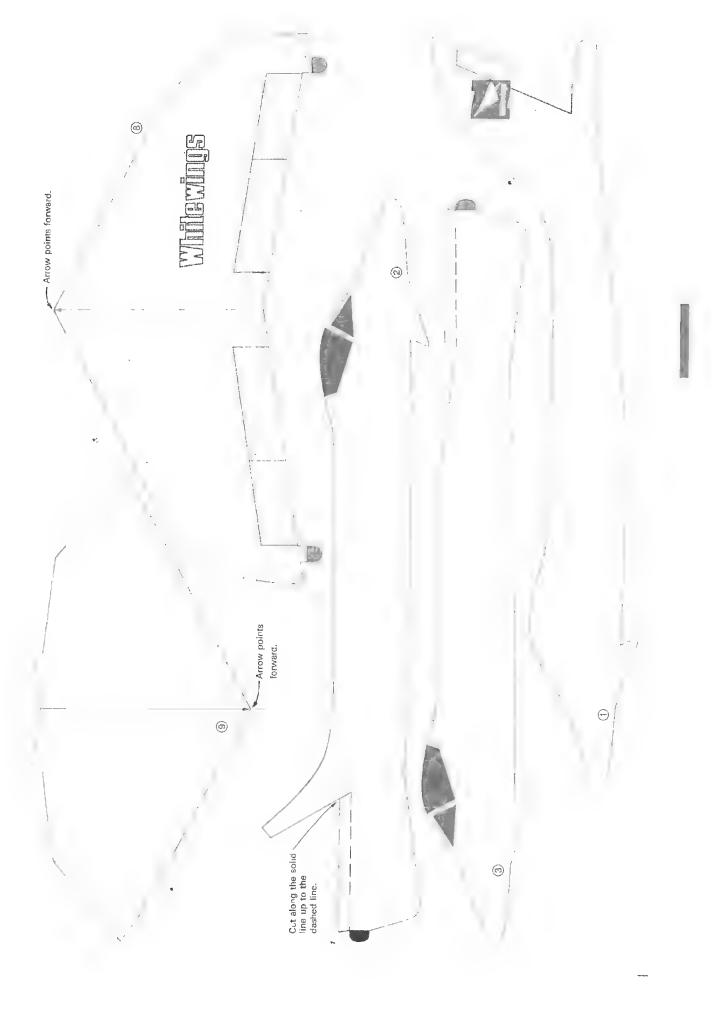
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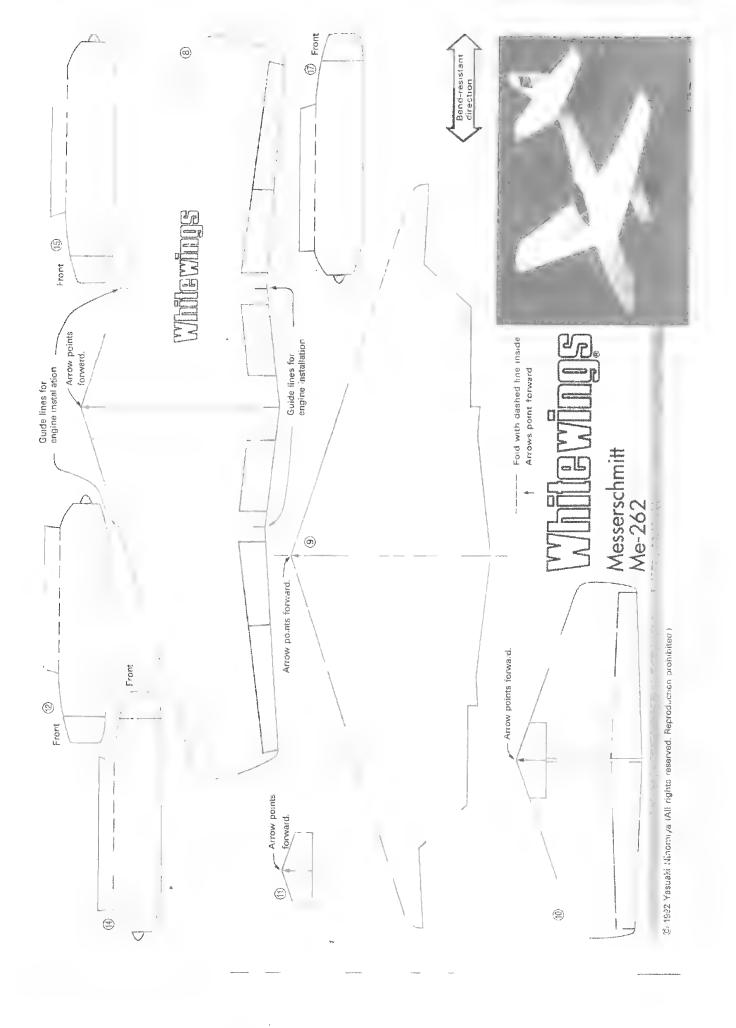


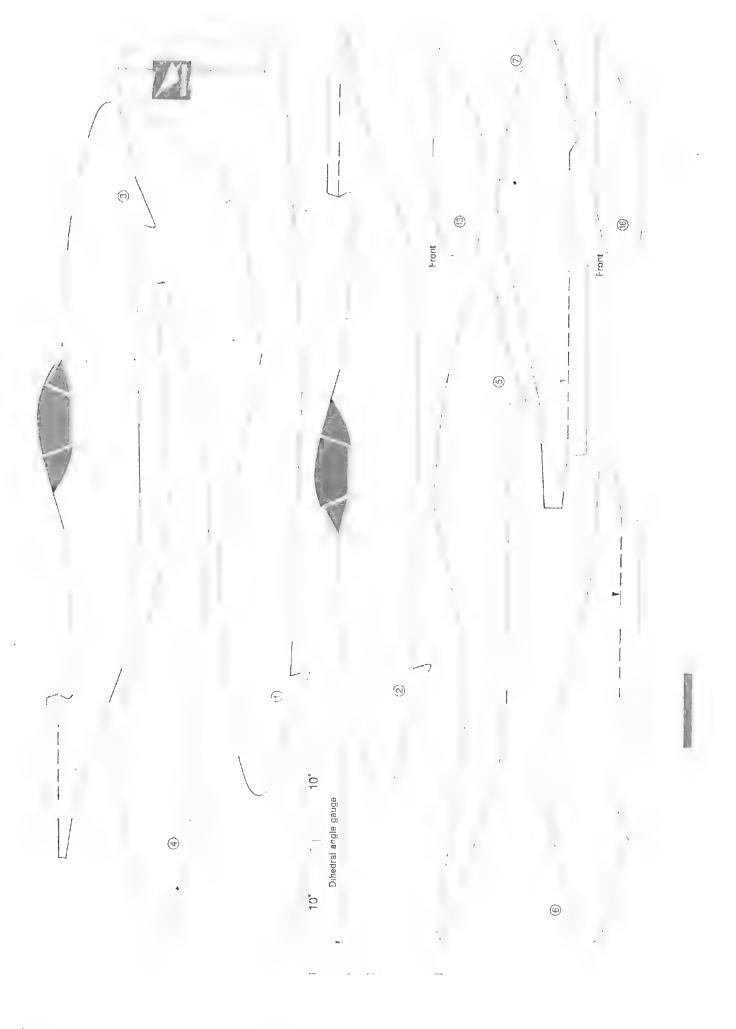


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While willings Hawker Siddeley
HARRIER







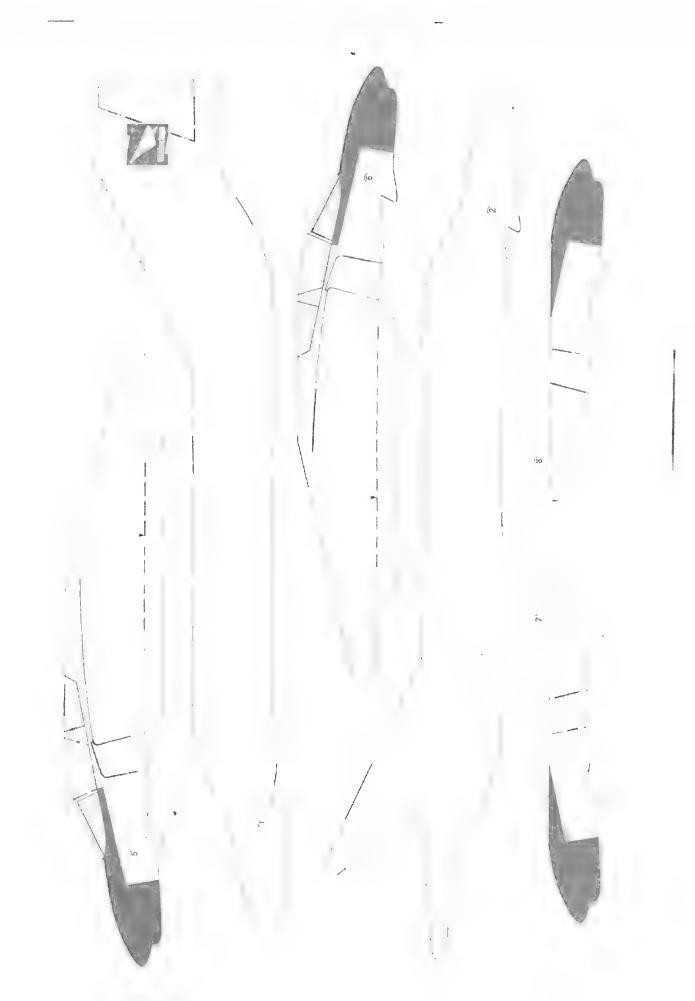


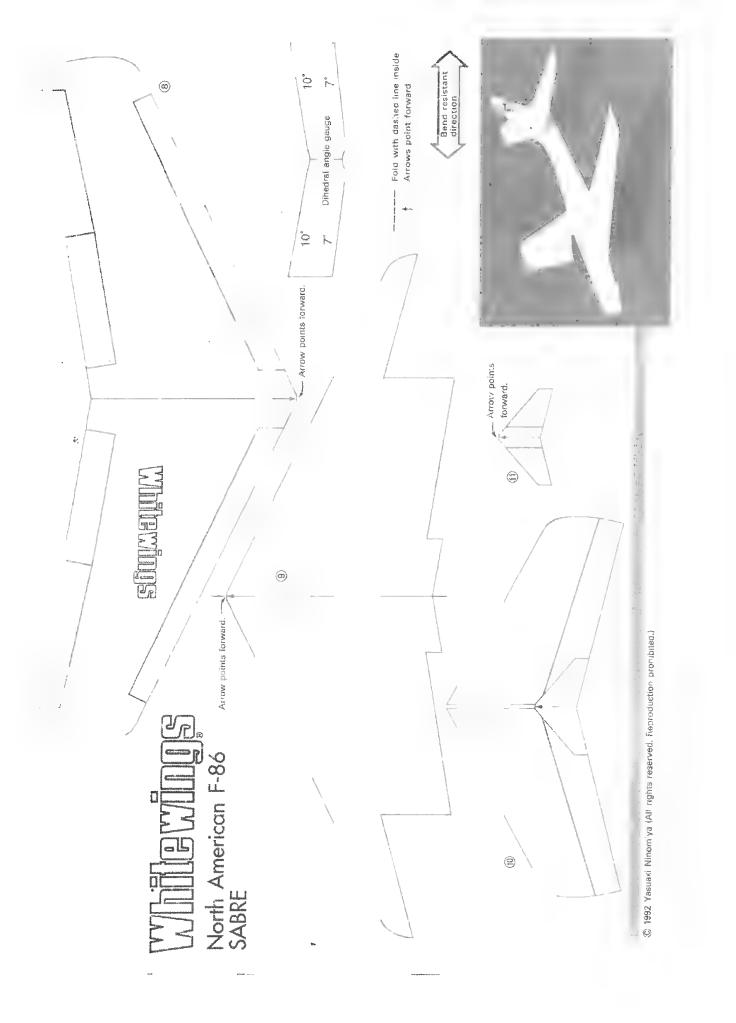


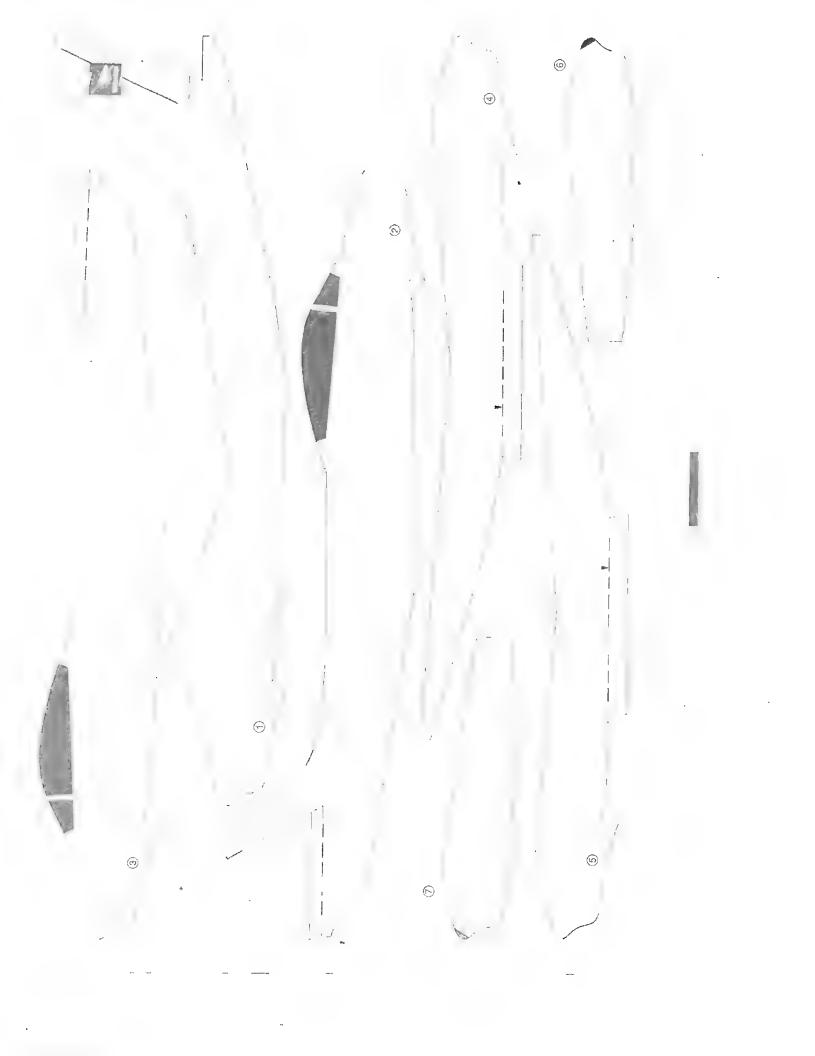
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(9)



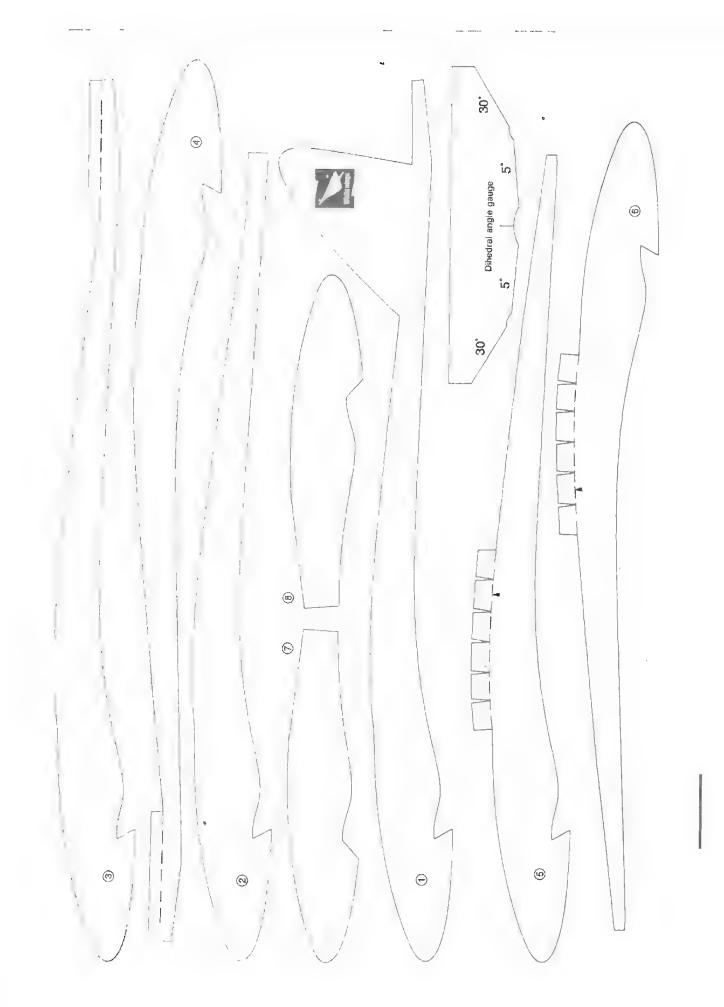
Arrows point forward

Bend-resistant

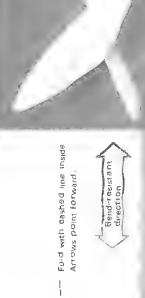


While Williams Racer 534
Heron

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Dot towards the front. -Dot towards the front. Arrow points forward. Doi towards the front. ---- Dot towards the front. (2)



Arrows point forward.

MINEWILLS Sparrowhawk

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4 Dihedral angle gauge ÎD) @ © Θ (9)

4 15° Difiedra angle gauge ⊚ . Θ (2) (m)

Alrow points forward.

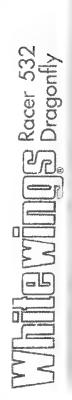
(G)

Dinedral rng-e gauge

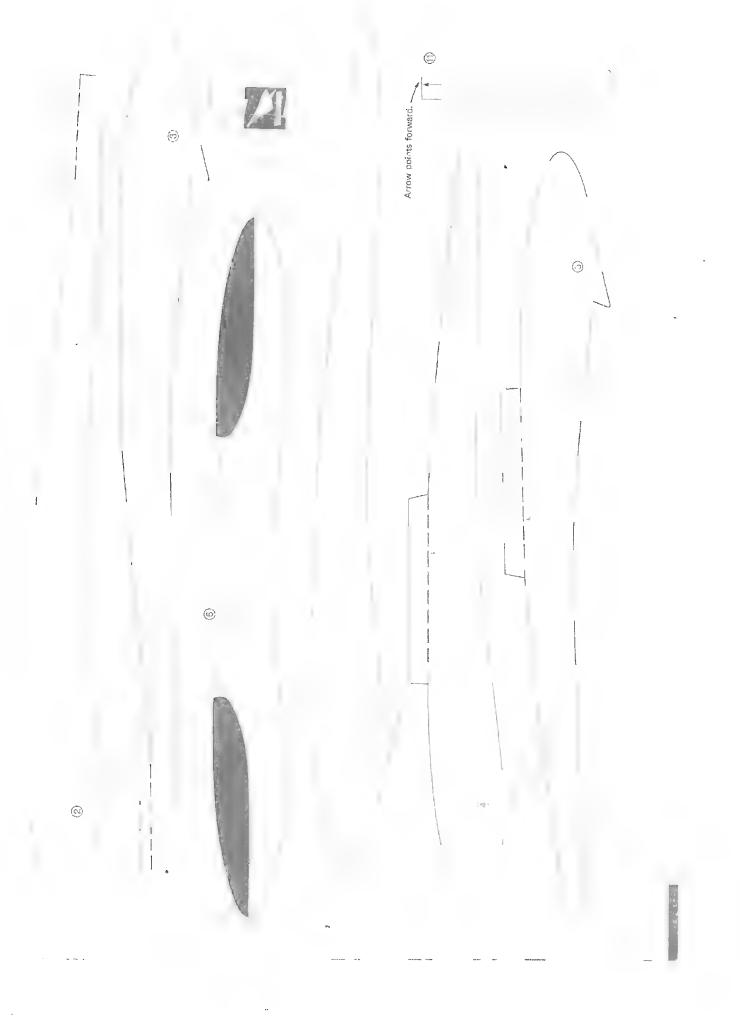
Fold with dashed line inside
 Arrows point forward

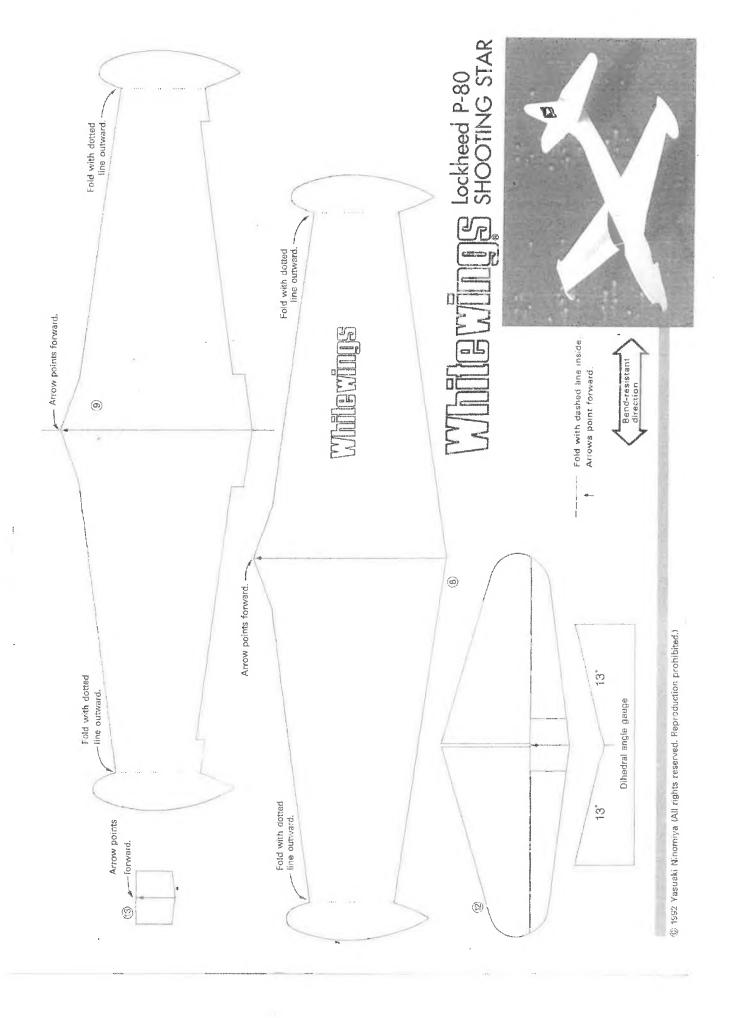


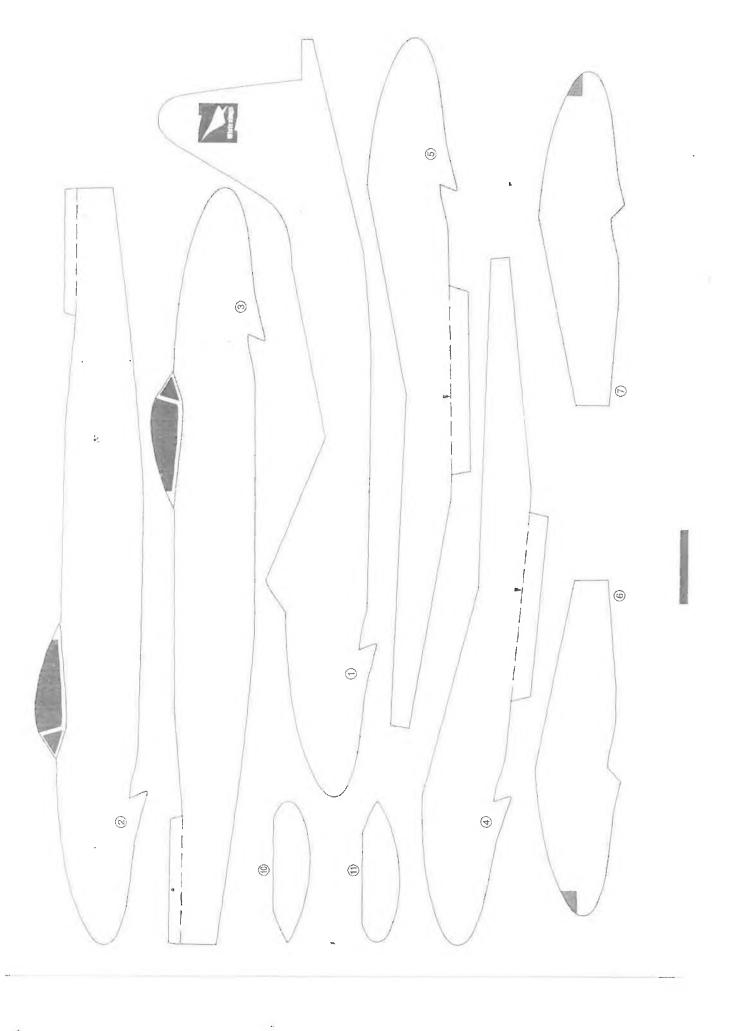


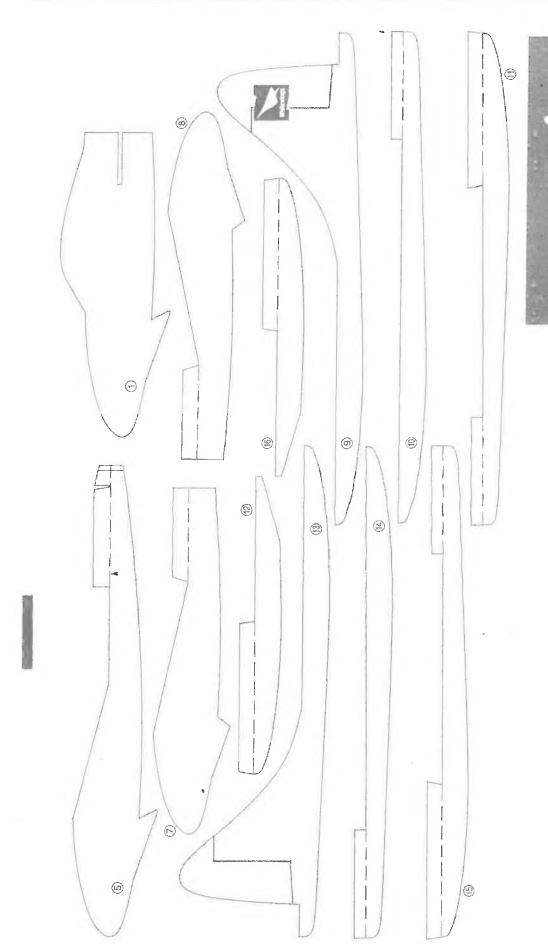


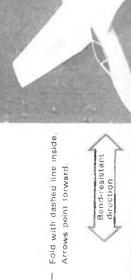
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VIIII BUILD De Havilland VAMPIRE

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